

Table 749-5

Default Values for Selected Hazardous Substances for use with the Wildlife Exposure Model in Table 749-4^a

	Toxicity Reference Value (mg/kg - d)				
Hazardous Substance	BAF _{Worm}	K _{Plant}	Shrew	Vole	Robin
METALS:					
Arsenic III	1.16	0.06	1.89	1.15	
Arsenic V	1.16	0.06	35	35	22
Barium	0.36		43.5	33.3	
Cadmium	4.6	0.14	15	15	20
Chromium	0.49		35.2	29.6	5
Copper	0.88	0.020	44	33.6	61.7
Lead	0.69	0.0047	20	20	11.3
Manganese	0.29		624	477	
Mercury, inorganic	1.32	0.0854	2.86	2.18	0.9
Mercury, organic	1.32		0.352	0.27	0.064
Molybdenum	0.48	1.01	3.09	2.36	35.3
Nickel	0.78	0.047	175.8	134.4	107
Selenium	10.5	0.0065	0.725	0.55	1
Zinc	3.19	0.095	703.3	537.4	131
Pesticides					
Aldrin	4.77	0.007 ^b	2.198	1.68	0.06
Benzene hexachloride (including lindane)	10.1				7
Chlordane	17.8	0.011 ^b	10.9	8.36	10.7
DDT/DDD/DDE	10.6	0.004 ^b	8.79	6.72	0.87
Dieldrin	28.8	0.029 ^b	0.44	0.34	4.37
Endrin	3.6	0.038 ^b	1.094	0.836	0.1
Heptachlor/heptachlor epoxide	10.9	0.027 ^b	2.857	2.18	0.48
Hexachlorobenzene	1.08				2.4
Pentachlorophenol	5.18	0.043 ^b	5.275	4.03	
Other Chlorinated Organics					
Chlorinated dibenzofurans	48				1.0E-05
Dioxins	48	0.005 ^b	2.2E-05	1.7E-05	1.4E-05
PCB mixtures	4.58	0.087 ^b	0.668	0.51	1.8
Other Nonchlorinated Organics					
Benzo(a)pyrene	0.43	0.011	1.19	0.91	

Table 749-5 Notes

^a For hazardous substances not shown in this table, use the following default values. Alternatively, use values established from a literature survey conducted in accordance with WAC 173-340-7493(4) and approved by the department.

K _{Plant} :	Metals (including metalloid elements): 1.01
	Organic chemicals: $K_{Plant} = 10^{(1.588 - (0.578 \log K_{ow}))}$
	Where $\log K_{ow}$ is the logarithm of the octanol-water partition coefficient.
BAF _{Worm} :	Metals (including metalloid elements): 4.6
	Nonchlorinated organic chemicals:
	$\log K_{ow} < 5$: 0.7
	$\log K_{ow} \geq 5$: 0.9
	Chlorinated organic chemicals:
	$\log K_{ow} < 5$: 4.7
	$\log K_{ow} \geq 5$: 11.8
RGAF _{Soil}	(All receptors): 1.0
	Toxicity reference values (all receptors): Values established from a literature survey conducted in accordance with WAC 173-340-7493(4).
	Site-specific values may be substituted for default values, as described below:
	K _{Plant} : Value from a literature survey conducted in accordance with WAC 173-340-7493(4) or from empirical studies at the site.
	BAF _{Worm} : Value from a literature survey conducted in accordance with WAC 173-340-7493(4) or from empirical studies at the site.
	RGAF _{Soil} : (All receptors): Values established from a literature survey conducted in accordance with WAC 173-340-7493(4). Toxicity reference values (all receptors): Default toxicity reference values provided in this table may be replaced by a value established from a literature survey conducted in accordance with WAC 173-340-7493(4).

^b Calculated from $\log K_{ow}$ using formula in footnote a.

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